



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
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## NOTICE OF ACCEPTANCE (NOA)

Sika Sarnafil, A Division of Sika Corp.  
100 Dan Road  
Canton, MA 02021

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: Sika Sarnafil PVC Single Ply Roofing over Steel Deck

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA#13-0422.06 and consists of pages 1 through 26.  
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 13-1008.14  
Expiration Date: 07/05/16  
Approval Date: 03/27/14  
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## ROOFING SYSTEM APPROVAL

**Category:** Roofing  
**Sub-Category:** Single Ply  
**Material:** PVC  
**Deck Type:** Steel  
**Maximum Design Pressure:** -112.5 psf.

## TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<b><u>Product</u></b>	<b><u>Dimensions</u></b>	<b><u>Test Specification</u></b>	<b><u>Product Description</u></b>
G410 Felt	Various	ASTM D 4434	Fiberglass reinforced PVC roofing membrane with a non-woven felt backing.
G459	Various	ASTM D 4434	Fiberglass reinforced PVC Alloy asphalt compatible flashing membrane.
S327	Various	ASTM D 4434	Polyester reinforced PVC roofing membrane.
S327 Felt	Various	ASTM D 4434	Polyester reinforced PVC roofing membrane with a non-woven felt backing.
Sarnatape	Various	Proprietary	Air flow barrier tape
Sarnacol 2170	5 gallons	Proprietary	Solvent based bonding adhesive.
Sarnacol 2121	5 gallons	Proprietary	Water based bonding adhesive.
Sarnacol 2163		Proprietary	Insulation adhesive.
Sarnatred	3.25' x 32.8'	Proprietary	PVC walkway protection sheet.
Sarnavap-10	20' x 100'	Proprietary	Polyethylene air/vapor barrier.
SarnaWalkways	Various	Proprietary	PVC walkway protection sheet.
Sarnastack	Various	Proprietary	Prefabricated cone flashing.
Sarnaclad	Various	Proprietary	Heat weldable PVC/galvanized steel flashing



**APPROVED INSULATIONS:****TABLE 2**

<b><u>Product Name</u></b>	<b><u>Product Description</u></b>	<b><u>Manufacturer (With Current NOA)</u></b>
Sarnatherm	Isocyanurate Insulation	Sika Sarnafil, A Division of Sika Corp.
Sarnatherm-25 PSI	Polyisocyanurate insulation board.	Sika Sarnafil, A Division of Sika Corp.
Sarnatherm (a)	Isocyanurate Insulation	Sika Sarnafil, A Division of Sika Corp.
ACFoam Composite	Isocyanurate Insulation with perlite facer	Atlas Roofing Corp.
ACFoam-II, ACFoam-III	Isocyanurate Insulation	Atlas Roofing Corp.
ACFoam Supreme	Isocyanurate Insulation	Atlas Roofing Corp.
DensDeck, DensDeck Prime	Silicon treated gypsum	Georgia Pacific Gypsum LLC
ENRGY 3	Isocyanurate Insulation	Johns Manville Corp.
ENRGY 3 Plus	Isocyanurate Insulation with wood fiberboard facer	Johns Manville Corp.
ENRGY 3 25 PSI	Isocyanurate Insulation	Johns Manville Corp.
High Density Wood Fiberboard	Wood fiber insulation	Generic
Perlite Insulation Board	Perlite Insulation	Generic
Type X Gypsum	Gypsum Wallboard	Generic
H-Shield	Isocyanurate Insulation	Hunter Panels, LLC
ISO 95+ GL	Isocyanurate Insulation	Firestone Building Products Company, LLC
Multi-Max FA-3	Isocyanurate Insulation	Rmax Operating, LLC
Thermarroof-3	Isocyanurate Insulation	Rmax Operating, LLC
Thermarroof Composite-3	Isocyanurate Insulation with perlite facer	Rmax Operating, LLC



## APPROVED FASTENERS:

**TABLE 3**

<b><u>Fastener Number</u></b>	<b><u>Product Name</u></b>	<b><u>Product Description</u></b>	<b><u>Dimensions</u></b>	<b><u>Manufacturer (With Current NOA)</u></b>
1.	#12 Standard Roofgrip, #14 Roofgrip, #15 Roofgrip	Insulation and membrane fastener	Various	OMG, Inc.
2.	Dekfast 12, Dekfast 14, Dekfast 15 HS	Insulation and membrane fastener	Various	SFS Intec, Inc.
3.	Sarnafastener	Insulation and membrane fastener	Various	Sika Sarnafil, A Division of Sika Corp.
4.	RhinoBond Insulation Plate	Insulation fastener	Various	OMG, Inc.
5.	Sarnabar	Galvanized or stainless steel membrane fastening bar.	Various	Sika Sarnafil, A Division of Sika Corp.
6.	Sarnaplate	Insulation fastening plate.	3" Round	Sika Sarnafil, A Division of Sika Corp.
7.	Sarnarail Polymer Batten Strip	Polymer Batten Bar	1" x 250'	Sika Sarnafil, A Division of Sika Corp.
8.	Sarnafastener-XP	Membrane and insulation fastener.	Various	Sika Sarnafil, A Division of Sika Corp.
9.	Sarnafastener MAXLoad	Membrane fastener	Various	Sika Sarnafil, A Division of Sika Corp.
10.	Sarnadisc MAXLoad Plate	AZ50 galvalume coated steel plate	3.5" Round	Sika Sarnafil, A Division of Sika Corp.
11.	Sarnadisc XPN	Membrane and insulation fastening plate.	1.5" x 3.75"	Sika Sarnafil, A Division of Sika Corp.
12.	RhinoBond Insulation Plate	Insulation fastening plate	Various	Sika Sarnafil, A Division of Sika Corp.
13.	OMG Super XHD	Membrane and insulation fastener.	Various	OMG, Inc.
14.	OMG Heavy-Duty	Membrane and insulation fastener.	Various	OMG, Inc.
15.	OMG 2" Barbed Plate	Galvanized steel stress plates	2" round	OMG, Inc.

**EVIDENCE SUBMITTED:**

<b><u>Test Agency</u></b>	<b><u>Test Identifier</u></b>	<b><u>Description</u></b>	<b><u>Date</u></b>
Celotex Technical Center	MTS Job No. 258215	TAS 114	09/09/97
Factory Mutual Research Corporation	0P6A6.AM	FM 4470	03/03/94
	0X3A3.AM	FM 4470	01/31/94
	2X2A5.AM	FM 4470	01/31/94
	0B9A0.AM	FM 4470	10/22/96
	1Z5A6.AM	FM 4470	07/18/97
	4B3A2.AM	FM 4470	06/19/97
	3012964	FM 4470	06/11/02
	3015643	FM 4470	12/06/02
	3016201	FM 4470	01/28/03
	3006785	FM 4470	05/06/04
	3017292	FM 4470	09/03/04
	3021131	FM 4470	07/07/05
	3024229	FM 4470	11/16/05
	3030053	FM 4470	09/12/07
	3028309	FM 4470	03/30/07
Underwriters Laboratories, Inc.	R8992	UL 790	05/15/13
Trinity   ERD	S44790.06.13	ASTM D4434	06/05/13
	S42480.08.12	Physical Properties	08/20/12
	S44790.08.13	ASTM D4434	08/26/13
	S36600.03.14	FM 4474 & TAS 114	03/04/14

## APPROVED ASSEMBLIES:

<b>Membrane Type:</b>	Single Ply, PVC
<b>Deck Type 2I:</b>	Steel, Insulated
<b>Deck Description:</b>	18 – 22ga. steel
<b>System Type B(1):</b>	Base Layer of insulation mechanically attached, optional top insulation layer fully adhered with approved asphalt.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Vapor Retarder (Optional):** An FM approved vapor barrier approved for use with hot asphalt may be applied to the deck or perlite base layer.

**Fire Barrier (Optional):** Minimum  $\frac{5}{8}$ " Type X Gypsum or  $\frac{1}{4}$ " DensDeck.

One or more layers of any of the following insulations:

<b><u>Base Insulation Layer:</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
<b>ACFoam-II, ACFoam Composite (bottom layer only), H-Shield, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI</b>		
Minimum 1.3" thick or tapered	1 or 2	1:2 ft <sup>2</sup>
Minimum 2" thick or tapered	1 or 2	1:4 ft <sup>2</sup>
<b>Sarnatherm, Sarnatherm-25 PSI, ENRGY 3, ENRGY 3 Plus, ENRGY 3 25 PSI</b>		
Minimum 1.4" thick or tapered	1, 2 or 3	1:3 ft <sup>2</sup>
Minimum 2" thick or tapered	1, 2 or 3	1:4 ft <sup>2</sup>
<b>DensDeck, DensDeck Prime</b>		
Minimum 1/4" thick	1, 2 or 3	1:1.2 ft <sup>2</sup>
Minimum 1/2" thick	1, 2 or 3	1:1.7 ft <sup>2</sup>
<b>Multi-Max FA-3, Thermarof Composite-3 (bottom layer only)</b>		
Minimum 1.25" thick	1, 2 or 3	1:2 ft <sup>2</sup>
Minimum 2" thick	1, 2 or 3	1:4 ft <sup>2</sup>
<b>Approved High Density Wood Fiberboard (base layer only)</b>		
Minimum 1" thick or tapered	1, 2 or 3	1:2 ft <sup>2</sup>
Minimum 1.4" thick or tapered	1, 2 or 3	1:2 ft <sup>2</sup>
<b>Approved Perlite Insulation Board</b>		
Minimum 3/4" thick	1, 2 or 3	1:1 ft <sup>2</sup>

**Note:** Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<b><u>Top Insulation Layer:</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
<b>ACFoam-II, Sarnatherm (a), Sarnatherm-25 PSI Minimum 1.3” thick or tapered</b>	N/A	N/A
<b>ENRGY 3, ENRGY 3 Plus, ENRGY 3 25 PSI Minimum 1.4” thick or tapered</b>	N/A	N/A
<b>DensDeck, DensDeck Prime Minimum 1/4” thick</b>	N/A	N/A
<b>Multi-Max FA-3 Minimum 1.25” thick or tapered</b>	N/A	N/A

**Note:** Optional top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

**Membrane:** Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 applied at a rate of 1.25gal/sq. to the substrate followed by a second coat at a rate of 1.0gal/sq. to the substrate. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

**Maximum Design Pressures:** -45 psf. (See General Limitation #9)



<b>Membrane Type:</b>	Single Ply, PVC
<b>Deck Type 2I:</b>	Steel, Insulated
<b>Deck Description:</b>	18 – 22ga. steel
<b>System Type B(2):</b>	Base Layer of insulation mechanically attached, optional top insulation layer fully adhered with approved asphalt or adhesive.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

<b>Vapor Retarder (Optional):</b>	Any UL or FM approved vapor barrier approved for use with hot asphalt may be applied to the deck or perlite base layer.
<b>Fire Barrier (Optional):</b>	Minimum ¼ “ Type X Gypsum or DensDeck

One or more layers of any of the following insulations:

<b><u>Base Insulation Layer:</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
ACFoam-II, ACFoam-III, H-Shield, ISO 95+GL, ENRGY 3, Sarnatherm, Sarnatherm (a), Sarnatherm-25 PSI Minimum 1.4” thick or tapered	1	1:2 ft <sup>2</sup>

**Note:** Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<b><u>Top Insulation Layer (Optional)</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
ACFoam-II, ACFoam-III, H-Shield, ISO 95+GL, ENRGY 3, Sarnatherm, Sarnatherm (a), Sarnatherm-25 PSI Minimum 1.4” thick or tapered	N/A	N/A
DensDeck, DensDeck Prime Minimum 1/4” thick or tapered	N/A	N/A

**Note:** Optional top layer of insulation shall be adhered to the deck in full coating of OlyBond Adhesive Fastener at a rate of 1 gal/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate

<b>Membrane:</b>	Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 adhesive. Adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 0.5 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.
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**Maximum Design  
Pressures:**

-45 psf. (See General Limitation #9)



**Membrane Type:** Single Ply, PVC

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18 – 22ga., Type B, Grade 40 steel deck fastened with Tek/5 fasteners and 5/8 in. diameter washers spaced 6 in. o.c. to bar joists at 7ft. spans. Side laps are fastened with Tek/2 fasteners spaced maximum 18 in. o.c.

**System Type B(3):** Base Layer of insulation mechanically attached.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of any of the following insulations:

<b><u>Insulation Layer:</u></b>	<b><u>Insulation Fasteners</u> <u>(Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
<b>Sarnatherm or H-Shield Minimum 1.5” thick</b>	<b>8 with 12</b>	<b>1:4 ft<sup>2</sup></b>

**Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Membrane:** Sarnafil S327 bonded to RhinoBond Insulation Plates with RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Minimum 3” wide side lap is sealed with a minimum ¾” wide heat weld.

**Maximum Design Pressures:** -52.5 psf (See General Limitation #7)



**Membrane Type:** Single Ply, PVC

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18 – 22ga., Type B, Grade 40 steel deck fastened with Tek/5 fasteners and 5/8 in. diameter washers spaced 6 in. o.c. to bar joists at 7ft. spans. Side laps are fastened with Tek/2 fasteners spaced maximum 18 in. o.c.

**System Type B(4):** Base Layer of insulation mechanically attached.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of any of the following insulations:

<b><u>Insulation Layer:</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
<b>Sarnatherm or H-Shield Minimum 1.5” thick</b>	<b>9 with 12</b>	<b>1:4 ft<sup>2</sup></b>

**Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Membrane:** Sarnafil S327 bonded to RhinoBond Insulation Plates with RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Minimum 3” wide side lap is sealed with a minimum ¾” wide heat weld.

**Maximum Design Pressures:** -60.0 psf (See General Limitation #7)



<b>Membrane Type:</b>	Single Ply, PVC
<b>Deck Type 2I:</b>	Steel, Insulated
<b>Deck Description:</b>	18 – 22ga. steel
<b>System Type C(1):</b>	All layers of insulation simultaneously fastened; membrane fully adhered.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Vapor Retarder (Optional):** An FM approved vapor barrier approved for use with hot asphalt may be applied to the deck or perlite base layer.

**Fire Barrier (Optional):** Minimum  $\frac{5}{8}$  " Type X Gypsum or  $\frac{1}{4}$  " DensDeck

One or more layers of any of the following insulations:

<b><u>Base Insulation Layer:</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ACFoam Composite (bottom layer only), ACFoam Supreme, H-Shield Minimum 1.3" thick or tapered	N/A	N/A
Sarnatherm, Sarnatherm-25 PSI, ENRGY 3, ENRGY 3 Plus, ENRGY 3 25 PSI, ISO 95+ GL Minimum 1.4" thick or tapered	N/A	N/A
Approved High Density Wood Fiberboard (base layer only) Minimum 1" thick	N/A	N/A
Multi-Max FA-3, Thermarroof-3 Minimum 1.25" thick or tapered	N/A	N/A
DensDeck, DensDeck Prime Minimum $\frac{1}{4}$ " thick	N/A	N/A
Approved Perlite Insulation Board (base layer only) Minimum $\frac{3}{4}$ " thick	N/A	N/A

**Note:** All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<b><u>Top Insulation Layer:</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
Sarnatherm (a), Sarnatherm-25 PSI, ACFoam-II Minimum 1.3" thick or tapered	1, 2 or 3	1:2 ft <sup>2</sup>
Minimum 2" thick or tapered	1, 2 or 3	1:4 ft <sup>2</sup>



Sarnatherm, Sarnatherm-25 PSI, ENRGY 3, ENRGY 3 Plus, ENRGY 3 25 PSI

Minimum 1.4" thick or tapered	1, 2 or 3	1:3 ft <sup>2</sup>
Minimum 2" thick or tapered	1, 2 or 3	1:4 ft <sup>2</sup>

**Top Insulation Layer (Continued):**

**Insulation Fasteners**  
**(Table 3)**

**Fastener**  
**Density/ft<sup>2</sup>**

DensDeck, DensDeck Prime

Minimum 1/4" thick	1, 2 or 3	1:1.2 ft <sup>2</sup>
Minimum 1/2" thick	1, 2 or 3	1:1.7 ft <sup>2</sup>

Multi-Max FA-3

Minimum 1.25" thick	1, 2 or 3	1:3 ft <sup>2</sup>
Minimum 2" thick	1, 2 or 3	1:4 ft <sup>2</sup>

**Note:** Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Membrane:** Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 applied at a rate of 1.25gal/sq. to the substrate followed by a second coat at a rate of 1.0gal/sq. to the substrate. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

**Maximum Design**

**Pressures:** -45 psf. (See General Limitation #9)



**Membrane Type:** Single Ply, PVC

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18 – 22ga., ASTM A653 Grade 33 steel deck fastened to 0.25 in. thick structural supports spaced 6 ft. o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps fastened with Traxx 1 fasteners spaced 24 in. o.c.

**System Type C(2):** All layers of insulation simultaneously fastened; membrane bonded.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of any of the following insulations:

<b><u>Base Insulation Layer:</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
Sarnatherm or H-Shield		
Minimum 1.5” thick	N/A	N/A

**Note:** All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<b><u>Top Insulation Layer (Optional):</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
Any approved cover board listed in Table 2		
Minimum 0.25” thick	13 with 12	See Design Pressure

**Note:** Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Membrane:** Sarnafil S327 bonded to RhinoBond Insulation Plates with RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Minimum 3” wide side lap is sealed with a minimum ¾” wide heat weld.

<b>Maximum Design Pressures:</b>	<b>Maximum Pressure</b>	<b>Fastener Spacing</b>	<b>Fastener Row Spacing</b>
	-45 psf (See General Limitation #7)	2 ft.	3 ft.
	-60 psf (See General Limitation #7)	2 ft.	2 ft.



**Membrane Type:** Single Ply, PVC

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18 – 22ga., ASTM A653/A653M-01a, SS Grade 33 steel deck fastened to 0.25 in. thick structural supports spaced 6 ft o.c. with Traxx/5 fasteners spaced 6 in. o.c. and with side laps fastened with Traxx/1 fasteners spaced 24 in. o.c.

**System Type C(3):** All layers of insulation simultaneously fastened; membrane fully adhered.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of any of the following insulations:

<b><u>Base Insulation Layer:</u></b>	<b><u>Insulation Fasteners</u> <u>(Table 3)</u></b>	<b><u>Fastener</u> <u>Density/ft<sup>2</sup></u></b>
Any approved polyisocyanurate listed in Table 2		
Minimum 1.5” thick	N/A	N/A

**Note:** All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<b><u>Top Insulation Layer:</u></b>	<b><u>Insulation Fasteners</u> <u>(Table 3)</u></b>	<b><u>Fastener</u> <u>Density/ft<sup>2</sup></u></b>
DensDeck Prime		
Minimum 5/8” thick	3 with 6	1:2 ft <sup>2</sup>

**Note:** Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Membrane:** Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive applied at a rate of 2.0 – 2.5 gal/sq. to substrate. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

Or

Sarnafil S327 adhered with Sarnacol 2170 roller applied to substrate at a rate of  $\frac{3}{4}$  to 2 gal/sq. and allowed to dry. Following a second coat roller applied of adhesive at 0.5 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

**Maximum Design Pressures:** -52.5 psf with G410 Felt or S327 Felt. (See General Limitation #7)  
-60.0 psf with S327. (See General Limitation #7)



<b>Membrane Type:</b>	Single Ply, PVC
<b>Deck Type 2I:</b>	Steel, Insulated
<b>Deck Description:</b>	18 – 22ga., ASTM A653 Grade 80 steel deck fastened 0.25 in.thick structural supports spaced 6 ft. o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps fastened with Traxx 1 fasteners spaced 24 in. o.c.
<b>System Type C(4):</b>	All layers of insulation simultaneously fastened; membrane bonded.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of any of the following insulations:

<b><u>Base Insulation Layer:</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
Sarnatherm or H-Shield Minimum 1.5” thick	N/A	N/A

**Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

<b><u>Top Insulation Layer (Optional):</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
Any approved cover board listed in Table 2 Minimum 0.25” thick	8 with 4	See Design Pressure

**Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Membrane:** Sarnafil S327 bonded to RhinoBond Insulation Plates with RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Minimum 3” wide side lap is sealed with a minimum 3/4” wide heat weld.

	<b>Maximum Pressure</b>	<b>Fastener Spacing</b>	<b>Fastener Row Spacing</b>
<b>Maximum Design Pressures:</b>	-45 psf (See General Limitation #7)	2 ft.	3 ft.
	-60 psf (See General Limitation #7)	2 ft.	2 ft.





**Membrane Type:** Single Ply, PVC

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18 ga., Grade 33 ksi steel deck fastened to 0.25 in. thick structural supports spaced 6 ft. o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps fastened with two Traxx 1 fasteners spaced 24 in. o.c.

**System Type C(5):** All layers of insulation simultaneously fastened; membrane bonded.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of any of the following insulations:

<b><u>Base Insulation Layer:</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
<b>Sarnatherm or H-Shield Minimum 1.5" thick</b>	N/A	N/A

**Note:** All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<b><u>Top Insulation Layer (Optional):</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
<b>Any approved cover board listed in Table 2 Minimum 0.25" thick</b>	8 with 4	See Design Pressure

**Note:** Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Membrane:** Sarnafil S327 bonded to RhinoBond Insulation Plates with RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Minimum 3" wide side lap is sealed with a minimum ¾" wide heat weld.

	<b>Maximum Pressure</b>	<b>Fastener Spacing</b>	<b>Fastener Row Spacing</b>
<b>Maximum Design Pressures:</b>	-45 psf (See General Limitation #7)	12 in.	6 ft.
	-52.5 psf (See General Limitation #7)	12 in.	5 ft.
	-90 psf (See General Limitation #7)	6 in.	6 ft.
	-105 psf (See General Limitation #7)	6 in.	5 ft.



**Membrane Type:** Single Ply, PVC

**Deck Type 2I:** Steel, Insulated, New Construction

**Deck Description:** Minimum 18-22 ga, Grade 80 ksi steel deck fastened to 0.25 in. thick structural supports spaced 5 ft. o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps fastened with two Traxx 1 fasteners spaced 24 in. o.c.

**System Type D(1):** Membrane attached over preliminary fastened insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Vapor Retarders:** Sarnavap vapor barrier applied directly to the deck or over the base insulation layer.  
**(Optional)**

**Fire Barrier:** Minimum 5/8" gypsum, 1/4" DensDeck, or Atlas FR10 or FR50 secured with Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.  
**(Optional)**

One or more layers of the following insulations:

<u>Insulation Layer:</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Any approved Polyisocyanurate insulation board listed in Table 2 Minimum 1.5" thick	N/A	N/A

**Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.**

**Membrane:** Sarnafil S327 attached to deck as specified below.

**Fastening:** Sarnafastener #14 or OMG Heavy-Duty fasteners with OMG 2" Barbed Plates spaced 6" o.c. in rows 12' o.c. maximum, or Sarnabars spaced 12' o.c. maximum fastened with Sarnafastener #14 spaced 6" o.c. through the field of the membrane and covered with a 7" minimum width cover strip with 1.5" welds on each side.

**Maximum Design Pressures:** -45.0 psf. (See General Limitation #7)



**Membrane Type:** Single Ply, PVC

**Deck Type 2I:** Steel, Insulated, New Construction

**Deck Description:** Minimum 18-22 ga, Grade 80 ksi steel deck fastened to 0.25 in. thick structural supports spaced 6 ft. o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps fastened with two Traxx 1 fasteners spaced 24 in. o.c.

**System Type D(2):** Membrane attached over preliminary fastened insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Vapor Retarders:** Sarnavap vapor barrier applied directly to the deck or over the base insulation layer.  
**(Optional)**

**Fire Barrier:** Minimum 5/8" gypsum, 1/4" DensDeck, or Atlas FR10 or FR50 secured with Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.  
**(Optional)**

One or more layers of the following insulations:

<u>Insulation Layer:</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Any approved Polyisocyanurate insulation board listed in Table 2		
Minimum 1.5" thick	N/A	N/A

**Note:** All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

**Membrane:** Sarnafil S327 attached to deck as specified below.

**Fastening:** Sarnafastener #14 or OMG Heavy-Duty fasteners with OMG 2" Barbed Plates spaced 6" o.c. within the 5.5" wide side lap spaced 73" o.c. and sealed with a minimum 1.5" weld.

**Maximum Design Pressures:** -45.0 psf. (See General Limitation #7)



**Membrane Type:** Single Ply, PVC

**Deck Type 2I:** Steel, Insulated

**Deck Description:** Minimum 18-22 ga., A1008 SS Grade 80 or A653 Grade 80 steel deck is fastened to 0.25 in. thick structural supports, spaced 6' o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps fastened with Traxx 1 fasteners spaced 24 in. o.c.

**System Type D(3):** Membrane attached over preliminary fastened insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Vapor Retarders:** Sarnavap or a FM approved vapor barrier applied directly to the deck or over the base  
**(Optional)**

**Fire Barrier:** Minimum 5/8" Type X Gypsum , 1/4" DensDeck secured with Dade County approved  
**(Optional)** insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

One or more layers of any of the following insulations:

<u>Insulation Layer:</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Any Approved Insulation listed in Table 2		
Minimum 1.5" thick	N/A	N/A

**Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.**

**Membrane:** Minimum 48 mil thick Sarnafil S327 attached to deck as specified below.

**Fastening:** Sarnafastener MAXLoad fasteners spaced 18" o.c. through Sarnarail Polymer Batten Strips spaced maximum 73.25" o.c. within the 5.5" wide side lap. Batten strip splice joints are made by overlapping the batten 24" and securing with two Sarnafastener MAXLoad screws spaced 18" o.c. Laps are sealed with at 1.5" wide heat weld on the outside edge and 1.0" wide heat weld on the inside edge.

**Maximum Design Pressures:** -52.5 psf. (See General Limitation #7)



**Membrane Type:** Single Ply, PVC

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18 – 22ga., Type B, Grade 40 steel deck fastened with Tek/5 fasteners and 5/8 in. diameter washers spaced 6 in. o.c. to bar joists at 7 ft. spans. Side laps are fastened with Tek/2 fasteners spaced 18 in. o.c.

**System Type D(4):** Membrane attached over preliminary fastened insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of any of the following insulations:

<b><u>Base Insulation Layer:</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
<b>Sarnatherm or H-Shield Minimum 1.5” thick</b>	<b>N/A</b>	<b>N/A</b>

**Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.**

**Membrane:** Sarnafil S327 attached to deck as specified below:

**Fastening:** Sarnafasteners-XP fasteners and Sarnadisc XPN plates spaced 6” o.c. within 5” wide side laps spaced 54.5” o.c. Laps are sealed with a 1.5” heat weld.

**Maximum Design Pressures:** -60.0 psf. (See General Limitation #7)



**Membrane Type:** Single Ply, PVC

**Deck Type 2I:** Steel, Insulated

**Deck Description:** Minimum 18-22 ga., A1008 SS Grade 80 or A653 Grade 80 steel deck is fastened to 0.25 in. thick structural supports, spaced 6' o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps fastened with Traxx 1 fasteners spaced 24 in. o.c.

**System Type D(5):** Membrane attached over preliminary fastened insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Vapor Retarders: (Optional)** Sarnavap or a FM approved vapor barrier applied directly to the deck or over the base insulation layer.

**Fire Barrier: (Optional)** Minimum 5/8" Type X Gypsum , 1/4" DensDeck secured with Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

One or more layers of any of the following insulations:

<u>Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, Sarnatherm (a), Sarnatherm-25 PSI Minimum 1.5" thick or tapered	N/A	N/A

**Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.**

**Membrane:** Sarnafil S327 attached to deck as specified below with.

**Fastening #1:** Sarnafastener MAXLoad fasteners spaced 18" o.c. through Sarnarail Polymer Batten Strips spaced maximum 73.25" o.c. within the 5.5" wide side lap. Batten strip splice joints are made by overlapping the batten 24" and securing with two Sarnafastener MAXLoad screws spaced 18" o.c. Laps are sealed with at 1.5" wide heat weld on the outside edge and 1.0" wide heat weld on the inside edge.  
***Maximum Design Pressure -45.0 psf. (See General Limitation #7)***

**Fastening #2:** Sarnafasteners-XP fasteners spaced 12" o.c. through Sarnarail Polymer Batten Strips spaced maximum 73.25" o.c. within the 5.5" wide side lap. Batten strip splice joints are made by overlapping the batten 18" and securing with two Sarnafastener XP screws spaced 12" o.c. Laps are sealed with at 1.5" wide heat weld on the outside edge and 1.0" wide heat weld on the inside edge.  
***Maximum Design Pressure -45.0 psf. (See General Limitation #7)***



**Fastening #3:** Sarnafasteners-XP fasteners spaced 6" o.c. through Sarnarail Polymer Batten Strips spaced maximum 144" o.c. within the 5.5" wide side lap. Batten strip splice joints are made by overlapping the batten 12" and securing with two Sarnafastener XP screws spaced 6" o.c. Laps are sealed with at 1.5" wide heat weld on the outside edge and 1.0" wide heat weld on the inside edge.

***Maximum Design Pressure -52.5 psf. (See General Limitation #7)***

**Fastening #4:** Sarnafasteners-XP fasteners spaced 6" o.c. through Sarnarail Polymer Batten Strips spaced maximum 73.25" o.c. within the 5.5" wide side lap. Batten strip splice joints are made by overlapping the batten 12" and securing with two Sarnafastener XP screws spaced 6" o.c. Laps are sealed with at 1.5" wide heat weld on the outside edge and 1.0" wide heat weld on the inside edge.

***Maximum Design Pressure -75.0 psf. (See General Limitation #7)***

**Maximum Design Pressures:**

See Fastening Pattern. (See General Limitation #7)

**Membrane Type:** Single Ply, PVC

**Deck Type 2I:** Steel, Insulated, New Construction

**Deck Description:** Minimum 18-22 ga., A1008 SS Grade 80 steel deck fastened to supports at 6' o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps fastened with Traxx 1 fasteners spaced 24 in. o.c.

**System Type D(6):** Membrane attached over preliminary fastened insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Vapor Retarders: (Optional)** Sarnavap or a FM approved vapor barrier applied directly to the deck or over the base insulation layer.

**Fire Barrier: (Optional)** Minimum 5/8" Type X Gypsum , 1/4" DensDeck secured with Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

One or more layers of any of the following insulations:

<u>Insulation Layer:</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, Sarnatherm (a), Sarnatherm-25 PSI Minimum 1.5" thick or tapered	N/A	N/A

**Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.**

**Membrane:** Sarnafil S327 attached to deck as specified below.

**Fastening #1:** Sarnafastener MAXLoad fasteners and Sarnarail Polymer Batten Strip spaced 24" o.c. within 5.5" wide side laps spaced maximum 54" o.c. Laps are sealed with a minimum 1" wide outside heat weld and a minimum 5/8" wide inside heat weld.  
**Maximum Design Pressure -45.0 psf. (See General Limitation #7)**

**Fastening #2:** Sarnafastener MAXLoad fasteners and Sarnadisc MAXLoad plates spaced 24" o.c. within 6.5" wide side laps spaced maximum 53" o.c. Laps are sealed with a minimum 1.6" wide outside heat weld.  
**Maximum Design Pressure -45.0 psf. (See General Limitation #7)**

**Fastening #3:** Sarnafasteners-XP fasteners and Sarnarail Polymer Batten Strip spaced 12" o.c. within 5.5" wide side laps spaced maximum 54" o.c. Laps are sealed with a minimum 1" wide outside heat weld and a minimum 5/8" wide inside heat weld.  
**Maximum Design Pressure -52.5 psf. (See General Limitation #7)**





- Fastening #4:** Sarnafastener MAXLoad fasteners and Sarnarail Polymer Batten Strip spaced 18" o.c. within 5.5" wide side laps spaced maximum 54" o.c. Laps are sealed with a minimum 1" wide outside heat weld and a minimum 5/8" wide inside heat weld.  
**Maximum Design Pressure -52.5 psf. (See General Limitation #7)**
- Fastening #5:** Sarnafastener MAXLoad fasteners and Sarnadisc MAXLoad plates spaced 18" o.c. within 6.5" wide side laps spaced maximum 53" o.c. Laps are sealed with a minimum 1.6" wide outside heat weld.  
**Maximum Design Pressure -52.5 psf. (See General Limitation #7)**
- Fastening #6:** Sarnafasteners-XP fasteners and Sarnadic XPN plates spaced 12" o.c. within 5.5" wide side laps spaced maximum 54" o.c. Laps are sealed with a minimum 1.6" wide outside heat weld.  
**Maximum Design Pressure -60.0 psf. (See General Limitation #7)**
- Fastening #7:** Sarnafastener MAXLoad fasteners and Sarnadisc MAXLoad plates spaced 12" o.c. within 6.5" wide side laps spaced maximum 53" o.c. Laps are sealed with a minimum 1.6" wide outside heat weld.  
**Maximum Design Pressure -60.0 psf. (See General Limitation #7)**
- Fastening #8:** Sarnafastener MAXLoad fasteners and Sarnarail Polymer Batten Strip spaced 12" o.c. within 5.5" wide side laps spaced maximum 54" o.c. Laps are sealed with a minimum 1" wide outside heat weld and a minimum 5/8" wide inside heat weld.  
**Maximum Design Pressure -67.5 psf. (See General Limitation #7)**
- Fastening #9:** Sarnafasteners-XP fasteners and Sarnadic XPN plates spaced 6" o.c. within 5.5" wide side laps spaced maximum 54" o.c. Laps are sealed with a minimum 1.6" wide outside heat weld.  
**Maximum Design Pressure -90.0 psf. (See General Limitation #7)**
- Fastening #10:** Sarnafastener MAXLoad fasteners and Sarnadisc MAXLoad plates spaced 6" o.c. within 6.5" wide side laps spaced maximum 53" o.c. Laps are sealed with a minimum 1.6" wide outside heat weld.  
**Maximum Design Pressure -105.0 psf. (See General Limitation #7)**
- Fastening #11:** Sarnafastener MAXLoad fasteners and Sarnarail Polymer Batten Strip spaced 6" o.c. within 5.5" wide side laps spaced maximum 54" o.c. Laps are sealed with a minimum 1" wide outside heat weld and a minimum 5/8" wide inside heat weld.  
**Maximum Design Pressure -112.5 psf. (See General Limitation #7)**
- Maximum Design Pressures:** See Fastening Pattern. (See General Limitation #7)

## STEEL DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117 and/or RAS 137; calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.

## GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. Insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117 and/or RAS 137. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

## END OF THIS ACCEPTANCE